
Subject: Re: Array -Time

Posted by [Helder Marchetto](#) on Thu, 24 Sep 2015 12:34:12 GMT

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On Thursday, September 24, 2015 at 2:16:22 PM UTC+2, Joyrles Fernandes wrote:

> I have:

> HH FLOAT = Array[1, 859]

> MM FLOAT = Array[1, 859]

>

> how Do create a only array with times value,e.g time=[1,859], with datas in array hh:mm. After I need to create a plot with day of year in funtion of time. Help me please.

My first question should be: what have you tried so far and what didn't work?

But whatever, I don't have my IDL open at the moment and I don't think it's necessary. So how about multiplying HH by 60 and summing that to MM? That would look like(*):

time = HH*60.0+MM

And time would have units of minutes(**).

Apart from that, depending on what you do, it might be convenient to make HH and MM 1d-arrays:

time = reform(HH)*60.0+reform(MM)

As far as your second question is concerned, I don't understand what "plot with day of year in function of time" means. Plotting this would result in a line. There are 24 h in a day and the equation would be $\text{day} = 24.0 * 60.0 * \text{time}$.

Cheers,
Helder

(*) if you want to have time in hours instead of minutes, then use $\text{time} = \text{HH} + \text{MM}/60.0$.

(**) depending on your scientific field, minutes are generally not the unit to use. I would go for seconds, but astronomers might go for years or whatever else. But seconds would be my choice, so you would have to multiply everything by 60.0